

## MODIS IOT Weekly Report

Mission Operations Days: 2000/141 to 2000/147

May 19, 2000 20:00:00 GMT to May 26, 2000 20:00:00 GMT

### Terra Spacecraft and MODIS Instrument Status:

Terra (AM-1) is in Normal Mode

MODIS is in Science Mode

MODIS has no known Anomalies

Blackbody	A On; B Off	Nominal
Calibration Electronics	A On; B Off	Nominal
Control Processor	A On; B Off	Nominal
Door: Nadir	Unlatched, open	Nominal
Space View	Unlatched, open	Nominal
Solar Diffuser	Unlatched, closed	Nominal
FDDI Formatter	A On; B off	Nominal
FIFO Memory	1 & 2 On; 3 & 4 Off	Nominal
Format Processor	A On; B off	Nominal
PC FPA	A On	Nominal
Power Supply: 1	On	Nominal
2	Off	Nominal
PV FPAs: VIS	A On	Nominal
NIR	A On	Nominal
SMIR	A On	Nominal
LWIR	A On	Nominal
Radiative Cooler:		
Outgas Heaters	Off	Nominal
LWIR FPA Heater	On	Nominal
SMIR FPA Heater	Off	Nominal
Scan Assembly	A On; B off	Nominal
SDSM	Off	Nominal
SRCA	Off	Nominal
Survival Heaters: PS1	Enabled	Nominal
PS2	Enabled	Nominal
Timing Generator	A On; B Off	Nominal
Flight Software	Rev BD	Nominal
Inhibit Ids Set	None	Nominal
TMONs enabled	66,67	Nominal

### This Week's Completed MODIS Activities:

Saturday, May 20, 2000

None

Sunday, May 21, 2000

None

Monday, May 22, 2000

143/20:02:00 ATC - Blackbody to 270K

Tuesday, May 23, 2000

144/14:00:00 ATC Blackbody to 315K

144/14:05:00 Real-time Set Blackbody duty cycle to 100%

144/18:21:20 Set EDS Flag per request from Kaufman

144/18:25:30 Clear EDS Flag per request from Kaufman

144/21:00:00 ATC Blackbody to 270K

144/21:30:00 Real-time Set Blackbody duty cycle to 33%

Wednesday, May 24, 2000

145/08:41:38 ATC OA16 SD/SDSM Open

145/10:20:31 ATC OA16 SD/SDSM Screened

145/19:00:00 ATC Blackbody to 290K

Thursday, May 25, 2000

None

Friday, May 26, 2000

147/10:08:04 ATC OA16 SD/SDSM Screened

This Week's Scheduled MODIS Activities Not Completed:

None

Upcoming MODIS Events:

Saturday, May 27, 2000

None

Sunday, May 28, 2000

None

Monday, May 29, 2000

150/20:02:00 ATC - Blackbody to 270K

Tuesday, May 30, 2000

151/14:00:00 ATC Blackbody to 315K

151/14:05:00 Real-time Set Blackbody duty cycle to 100%

151/21:00:00 ATC Blackbody to 270K

151/21:00:00 Real-time Set Blackbody duty cycle to 33%

Wednesday, May 31, 2000

152/?? ATC OA16 SD/SDSM Open  
152/?? ATC OA16 SD/SDSM Screened

152/17:12:40 ATC OA03 – Formatter Day Mode (Normal Operation)  
152/18:02:04 ATC OA04 – Formatter Night Mode (REMOVED)  
MODIS will remain in Day Mode during this Night Time Ground Track.  
This Ground Track covers the Indian Ocean and Asian Continent.  
152/18:51:32 ATC OA03 – Formatter Day Mode (REMOVED)  
This command is unnecessary, MODIS will already be in Day Mode.

152/19:00:00 ATC Blackbody to 290K

152/19:40:57 ATC OA04 – Formatter Night Mode (Normal Operation)

Thursday, June 1, 2000  
None

Friday, June 2, 2000  
154/?? ATC OA16 SD/SDSM Screened

#### Maneuvers:

Tue, June 20, 2000 – Drag Makeup Maneuver  
Wed, June 21, 2000 – MODIS Roll #1 (2000/173/21:50:10 – 21:56:40), roll degree = -18.0044  
Wed, June 21, 2000 – MODIS Roll #2 (2000/173/23:28:43 – 23:35:13), roll degree = -17.4518  
Wed, June 21, 2000 – MODIS Roll #3 (2000/174/01:07:16 – 01:13:46), roll degree = -16.9070

#### MODIS Anomalies:

None.

#### General Instrument Comments:

MODIS is in Science Mode on the A-side with the SVD and NAD open.

The upcoming Day 152 Day Rate collection during a Night Time Ground Track will exceed the normal MODIS SSR allocation. Members of the FOT, EDOS, and the DAAC have assisted with the planning of additional TDRSS Science Data Playbacks to prevent the overflow of the MODIS Buffer. The resources necessary for these additional playbacks have been scheduled. Barring a failed or delayed playback, there should be no reason for any science data loss during this period of high volume MODIS data.

#### MODIS Telemetry Trends:

Telemetry is nominal.

Non-MODIS Significant Events:

None.

Limited Life Item Status:

SRCA 10W Lamp #1: 163.9 of 500 hours

SRCA 10W Lamp #2: 131.0 of 500 hours

SRCA 10W Lamp #3: 140.2 of 500 hours

SRCA 10W Lamp #4: 61.5 of 500 hours

SRCA 1W Lamp #1: 554.3 of 4000 hours

SRCA 1W Lamp #2: 276.3 of 4000 hours

Solar Diffuser Door: 1351 of 3022 Movements

Nadir Aperture Door: 532 of 1316 Movements

Space View Door: 437 of 1316 Movements